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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/557,580	03/24/2006	Hisanori Akiyama	125973	9054
25944 7590 09/28/2009 OLIFF & BERRIDGE, PLC			EXAMINER	
P.O. BOX 3208	50	MINSKEY, JACOB T		
ALEXANDRIA, VA 22320-4850			ART UNIT	PAPER NUMBER
			1791	
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			09/28/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/557,580	AKIYAMA, HISANORI				
Office Action Summary	Examiner	Art Unit				
	JACOB T. MINSKEY	1791				
The MAILING DATE of this communication app	pears on the cover sheet with the c	orrespondence address				
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPL' WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 28 A	uaust 2009.					
	action is non-final.					
· -	<u> </u>					
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-5</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) <u>1-5</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examine	er.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is ob	jected to. See 37 CFR 1.121(d).				
11)☐ The oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. ☐ Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal P					
Paper No(s)/Mail Date	6) Other:	••				

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 8/28/2009 has been entered.

Response to Arguments

- 2. Claims 1 and 4 have been amended by the Applicant.
- 3. Applicant's arguments with respect to claims 1-5 have been considered but are moot in view of the new ground(s) of rejection.
- 4. Applicant traversed the previous anticipation rejection by Miyazawa with the argument that Miyazawa does not teach aligning the geometric center of the lens with the geometric center of the lens blank. The amendments to claims 1 and 4 clarify the limitations in order to overcome the previously presented anticipation rejection, and new grounds of rejection will be presented in the following sections.

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Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 6. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Siders et al, US Patent Publication 2003/0181133.
- 7. Regarding claim 1, Siders teaches a method of manufacturing a spectacle lens (see abstract) based on order information including spectacle flame information, a prescription value, and layout information (step 12 figure 1), the method comprising: forming a lens member by forming a curved surface shape (see figures 1-10) satisfying an optical specification of the spectacle lens related to an order on a plastic material (lens blank item 108 see abstract); and edging [0080 and 0090] to process the lens member into an edge shape of the spectacle lens related to the order (see figures 1-3), wherein an area of the edge shape on a surface of the plastic material is determined prior to the step of forming the lens member (steps 10-18 in figure 1) and said lens member forming step forms a curved surface shape on the plastic material so that a geometric center of the edge shape positions at a geometric center of the plastic material (item 238 [0122-0124] and figure 19) and the geometric center of the plastic material does not match an optical center of the spectacle lens (see figures 13-19 and [0088]).

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8. Siders additionally states that it is known in the art to center the block lens on the lens center in what is called "lens blank geometric center blocking" [0011-0014].

Claim Rejections - 35 USC § 103

- 9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 10. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 11. Claims 1-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Miyazawa et al, US patent publication 2002/0160690 A1 in view of Siders et al, US Patent Publication 2003/0181133.
- 12. Regarding claim 1, Miyazawa et al teach a spectacle lens manufacturing method [0033] manufacturing a spectacle lens based on order information ([0034] and [0037-0038]) including spectacle frame information, a prescription value, and layout information, comprising the steps of: forming a lens member to obtain the lens member by forming a curved surface shape satisfying an optical specification of the spectacle

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lens related to an order [0037,0042] on a plastic material [0014]; and edging to process the lens member to be shaped into an edge shape of the spectacle lens related to the order (chamfering, [0042]), and the geometric center of the plastic material does not match an optical center of the spectacle lens (see figure 6).

- 13. Miyazawa teaches controlling the adjustments of the geometric center of the lens blank and optical center, but does through adjustments of the operation and calculations. Miyazawa does not explicitly teach wherein said lens member forming step forms a curved surface shape on the plastic material so that a geometric center of the edge shape positions at a geometric center of the plastic material.
- 14. In the same field of endeavor of forming lenses from lens blanks by order, Siders teaches a method wherein an area of the edge shape on a surface of the plastic material is determined prior to the step of forming the lens member (steps 10-18 in figure 1) and said lens member forming step forms a curved surface shape on the plastic material so that a geometric center of the edge shape positions at a geometric center of the plastic material (item 238 [0122-0124] and figure 19) and the geometric center of the plastic material does not match an optical center of the spectacle lens (see figures 13-19 and [0088]).
- 15. It would have been obvious to one of ordinary skill in the art at the time of the invention to combine Siders' teaching to align the geometric centers of the edge lens and lens blank on the machine center of the apparatus in the Miyazawa method for the benefit of directly controlling where the geometric center of the lens will be without

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needed to make corrective calculations in the operation. This will provide better quality and ease of operation.

- 16. Regarding claim 2, Miyazawa further teaches that the lens member forming step uses a lens blank (semi-finished lens, [0044]) of which both the surface have not yet processed to the curved surface shape satisfying the optical specification of the spectacle lens related to the order [0044] but processed to a predetermined surface shape as the plastic material of a processing target, and is able to process the spectacle lens related to the order appropriately out of a plurality of lens blanks manufactured and prepared in advance [0044-0045], and wherein the lens blank having an outside diameter at least larger than a maximum distance between a frame center and a frame of the spectacle frame related to the order and having the smallest outside diameter as well ("the semi-finished lens, therefore has a thickness relatively larger than a finish thickness" [0044]) is selected and processed so that the spectacle lens related to the order is manufactured (optimum semi-finished lens to be machined is selected from the stock [0045]).
- 17. Regarding claim 3, Miyazawa further teaches that said lens member forming step uses a numerical-control curve generator [0052] generating the curved surface shape of a processing target by controlling distances from a cutting blade to the plastic material (X, Y, and Z- axis positioning means [0052]) and a rotation axis (figure 2, item 213 [0052]), respectively, in accordance with the curved surface shape of a formation target while rotating the plastic material around the rotation axis passing through a specific point of the curved surface of the processing target (center coordinate and normal line,

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[0052-0054]), and wherein the plastic material is arranged so that the center thereof being a geometric center (MC [0083]) of an edge shape of the spectacle lens comes above the rotation axis (figures 5 and 6, [0082-0083]), a calculation is made to obtain a tilt angle (angle [0083]) in a case where a reference surface of the plastic material is tilted at a predetermined angle with respect to a case where the processing is performed on assumption that an optical center or a lens vertex positions above the rotation axis, and a processing is performed by tilting the reference surface of the plastic material beforehand to offset the tilted angle [0083].

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18. Regarding claim 4, Miyazawa teaches a spectacle lens manufacturing system [0033], comprising: an order placement-side computer (online terminal, [0037]) processing and transmitting information required to order a spectacle lens including frame shape information [0037]; a manufacturing-side computer (calculating computer [0043]) acquiring information required to manufacture the spectacle lens-related to the order by receiving the information transmitted by the order placement-side computer [0043 and 0045]; and a spectacle lens manufacturing device manufacturing the spectacle lens-related to the order that is processed to have a shape settable in a frame by performing processes including formations of a curved surface and edge shape on a plastic material based on the information acquired by the manufacturing-side computer [0049]; wherein said spectacle lens manufacturing device uses, as the plastic material of a processing target [0014], a lens blank being a partly finished product of which both surfaces are not yet processed to have a curved surface satisfying an ultimate optical specification but have a predetermined surface shape (semi-finished lens [0043-0044]),

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wherein a geometric center of the lens blank matches with a frame center of the edge shape to be processed (see discussion above [0052-0054]), wherein said spectacle lens manufacturing device selects, out of plural lens blank (stocked semi-finished lenses [0045]) of different outside diameters and/or lens thicknesses prepared in advance [0044-0045], the lens blank having the outside diameter and/or lens thickness size(s) allowing an appropriate processing for the spectacle lens-related to the order [0044-0045], wherein the selection of the outside diameter of the lens blank is conducted by specifying based on a distance from a frame center to a frame and the spectacle lens-related to the order is manufactured by processing the selected lens blank [0044-0045], and wherein the curved surface formation is performed to both the surfaces of the lens blank selected by the selection [0035].

- 19. Miyazawa teaches controlling the adjustments of the geometric center of the lens blank and optical center, but does through adjustments of the operation and calculations. Miyazawa does not explicitly teach wherein said lens member forming step forms a curved surface shape on the plastic material so that a geometric center of the edge shape positions at a geometric center of the plastic material.
- 20. In the same field of endeavor of forming lenses from lens blanks by order, Siders teaches a method wherein an area of the edge shape on a surface of the plastic material is determined prior to the step of forming the lens member (steps 10-18 in figure 1) and said lens member forming step forms a curved surface shape on the plastic material so that a geometric center of the edge shape positions at a geometric center of the plastic material (item 238 [0122-0124] and figure 19) and the geometric

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center of the plastic material does not match an optical center of the spectacle lens (see figures 13-19 and [0088]).

- 21. It would have been obvious to one of ordinary skill in the art at the time of the invention to combine Siders's teaching to align the geometric centers of the edge lens and lens blank on the machine center of the apparatus in the Miyazawa method for the benefit of directly controlling where the geometric center of the lens will be without needed to make corrective calculations in the operation. This will provide better quality and ease of operation.
- 22. Regarding claim 5, further teaches that said lens member forming step uses a numerical-control curve generator [0052] generating the curved surface shape of a processing target by controlling distances from a cutting blade to the plastic material (X, Y, and Z- axis positioning means [0052]) and a rotation axis (figure 2, item 213 [0052]), respectively, in accordance with the curved surface shape of a formation target while rotating the plastic material around the rotation axis passing through a specific point of the curved surface of the processing target (center coordinate and normal line, [0052-0054]), and wherein the plastic material is arranged so that the center thereof being a geometric center (MC [0083]) of an edge shape of the spectacle lens comes above the rotation axis (figures 5 and 6, [0082-0083]), a calculation is made to obtain a tilt angle (angle [0083]) in a case where a reference surface of the plastic material is tilted at a predetermined angle with respect to a case where the processing is performed on assumption that an optical center or a lens vertex positions above the rotation axis, and

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a processing is performed by tilting the reference surface of the plastic material beforehand to offset the tilted angle [0083].

Conclusion

23. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

24. USP 5,210,695 to Wood teaches a block mounting and edging system to create lenses where the center of the lens block can be located at the patterned lens geometric centered which is different than the optical center of the lens.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JACOB T. MINSKEY whose telephone number is (571)270-7003. The examiner can normally be reached on Monday to Friday 7:30-5:00 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven Griffin can be reached on 571-272-1189. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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JTM

/Eric Hug/ Primary Examiner, Art Unit 1791